Application No.: 10/571998 Docket No.: NIW-031US

AMENDMENTS TO THE SPECIFICATION

At page 27, please replace the paragraph at lines 13-17 with the following replacement paragraph:

(65) A polymer solid electrolyte battery according to any one of (56) to (64), wherein a molar ratio ((XX)/((XXI)+C)) ((XX)/((XXI)+C11)) of the repeating unit represented by the Formula (XX) to a total of the repeating unit represented by the Formula (XXI) and the repeating unit included in the block chain [[C]]C11 is in a range of 1/30 to 30/1;

At page 100, please replace the first full paragraph with the following replacement paragraph:

2 g of the above obtained copolymer and 0.03 g and 0.5 g of glycidyl amine epoxy resin having three epoxy groups in the molecule ("Epotohto YH-434" produced by Tohto Kasei Co., Ltd.; epoxy equivalent: 120), which is a cross-linking agent, were dissolved in 20g-20ml of acetone in an argon atmosphere. Then, 0.17 g of LiClO4 was added thereto and dissolved uniformly.

Please replace the paragraph that spans pages 113-115 with the following replacement paragraph:

Into 70 g of toluene previously deaerated with argon were added 0.02 mmol of CPS, 0.1 mmol of p-SbP-1 obtained in Example 1, 13 mmol of m-t-butoxystyrene (hereinafter abbreviated as MTBST), and 5 mmol of n-octane, and these were mixed uniformly in an argon atmosphere. Then, 0.2 mmol of di-n-butylamine was further added thereto, and the copolymerization reaction was initiated by heating to 100°C while stirring. After a lapse of 30 hours from when the reaction was initiated, the reaction system was cooled to 0°C to terminate the copolymerization reaction. The GC analysis showed that the degree of conversion of MTBST was 50%. This reaction solution was subjected to column purification and purification under reduced pressure described above, and poly(MTBST-b-St-b-PME-1000-b-St-b-MTBST) (hereinafter abbreviated as "p-SbP-4") was finally obtained. The GPC analysis showed that the produced polymer was a single dispersion polymer of Mn=167,000.

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This p-Sbp-4 was dissolved in a mixed solvent of toluene/ethanol (weight ratio of 1:1), and a 10% solution was prepared. A reaction of deblocking protected groups was carried out for 3 hours at 65°C by adding 1.2 mmol of concentrated sulfuric acid. Next, the temperature of the reaction solution was made equal to room temperature, and 1 g of an acid absorbent ("Carplex#1120" produced by Showa Chemical Industry Co., Ltd.) was added into the reaction solution. The reaction solution was stirred for 10 min, and then filtered. A component of solvent was removed by volatilizing the filtrate under reduced pressure, and a copolymer in a semi-solid state was obtained. It was confirmed based on the 13CNMR analysis of this polymer that the mhydroxystrene (hereinafter abbreviated as "MHS") backbone was formed through the completion of the reaction of deblocking the protected groups because no signal around 76 ppm derived from tertiary carbons of m-t-butoxy groups was recognized. The GPC analysis showed that this polymer was a single dispersion polymer of Mn=162,800. Moreover, the "CNMR analysis showed that the obtained polymer was a block/graft copolymer (hereinafter abbreviated as "BL-4") having a structure of poly (MHS-b-St b PME 1000 b-St b MGS) (MHS-b-St-b-PME-1000-b-St-b-MHS) wherein the ratio of the number of moles of repeating units derived from PME-1000 to the total repeating units in the copolymer was 58%, the ratio of the number of moles of repeating units derived from St was 29%, and the ratio of the number of moles of repeating units derived from MHS was 13%.

At page 125, please replace the first full paragraph with the following replacement paragraph:

From the results of the above charge-discharge test, it was found that a solid electrolyte battery having the following properties was obtained: initial discharge capacity: 81 mAh/g, charge voltage: 4.5 V, discharge voltage: 3.78 V and charge-discharge efficiency: 90%; discharge capacity after 20 cycles: 71 mAh/g, discharge voltage: 3.70 FV 3.70 V and charge-discharge efficiency: 87%.

At page 140, please replace the last full paragraph with the following replacement paragraph: 340 mg of a powder of LiCoO2 ("CellseedC-10" produced by Nippon Chemical Industrial Co., Ltd.; particle size: 10-15 µm) and 40 mg of ketjen black (KB produced by Ketjen Black International Co., Ltd.) were put in a mortar and mixed thoroughly.

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170 mg of a 12% by weight N-methyl pyrrolidone (NMP) solution of polyvinylidene fluoride (PVdF produced by Aldrich, molecular weight: 534,000) was added thereto, and mixed in thoroughly with a spatula. Then, the specimen was applied onto a capacitor of aluminum foil (80 mm×200 mm and thickness: 50 μ m) with a doctor blade (width: 40 mm and air gap: 50 μ m), and vacuum-dried at 100°C for 24 hours, and an anode layer was produced by pressing that at a pressure of 20 MPa/em 20 MPa/cm². The thickness of the anode was 32 μ m, and the content of LiCoO2 was 5 mg/cm².